

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-149100-1

Client Project/Site: Benchmark-791 Washington St.(Trico site)

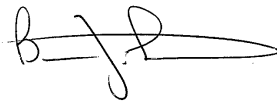
For:

Turnkey Environmental Restoration, LLC

2558 Hamburg Turnpike

Lackawanna, New York 14218

Attn: Mr. Christopher Z Boron



Authorized for release by:

2/22/2019 9:19:41 AM

Brian Fischer, Manager of Project Management

(716)504-9835

[brian.fischer@testamericainc.com](mailto:brian.fischer@testamericainc.com)



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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark-791 Washington St.(Trico site)

TestAmerica Job ID: 480-149100-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark-791 Washington St.(Trico site)

TestAmerica Job ID: 480-149100-1

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**Job ID: 480-149100-1**

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**Laboratory: TestAmerica Buffalo**

## Narrative

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**Job Narrative  
480-149100-1**

### Comments

No additional comments.

### Receipt

The sample was received on 2/15/2019 2:14 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9° C.

### GC Semi VOA

Method(s) 8082A: Surrogate recovery for the following sample was outside control limits: HYDROLIC LIFT OIL (480-149100-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark-791 Washington St.(Trico site)

TestAmerica Job ID: 480-149100-1

**Client Sample ID: HYDRAULIC LIFT OIL**

**Lab Sample ID: 480-149100-1**

No Detections.

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This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark-791 Washington St.(Trico site)

TestAmerica Job ID: 480-149100-1

**Client Sample ID: HYDRAULIC LIFT OIL**

**Lab Sample ID: 480-149100-1**

**Date Collected: 02/14/19 11:00**

**Matrix: Waste**

**Date Received: 02/15/19 14:14**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		3.6	0.70	mg/Kg		02/20/19 14:20	02/21/19 18:50	1
PCB-1221	ND		3.6	0.70	mg/Kg		02/20/19 14:20	02/21/19 18:50	1
PCB-1232	ND		3.6	0.70	mg/Kg		02/20/19 14:20	02/21/19 18:50	1
PCB-1242	ND		3.6	0.70	mg/Kg		02/20/19 14:20	02/21/19 18:50	1
PCB-1248	ND		3.6	0.70	mg/Kg		02/20/19 14:20	02/21/19 18:50	1
PCB-1254	ND		3.6	0.17	mg/Kg		02/20/19 14:20	02/21/19 18:50	1
PCB-1260	ND		3.6	0.17	mg/Kg		02/20/19 14:20	02/21/19 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		60 - 154	02/20/19 14:20	02/21/19 18:50	1
DCB Decachlorobiphenyl	63	X	65 - 174	02/20/19 14:20	02/21/19 18:50	1

# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark-791 Washington St.(Trico site)

TestAmerica Job ID: 480-149100-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Waste

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (60-154)	DCBP2 (65-174)
480-149100-1	HYDRAULIC LIFT OIL	69	63 X
LCS 480-459888/2-A	Lab Control Sample	90	110
LCSD 480-459888/3-A	Lab Control Sample Dup	83	102
MB 480-459888/1-A	Method Blank	84	101

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark-791 Washington St.(Trico site)

TestAmerica Job ID: 480-149100-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 480-459888/1-A**  
**Matrix: Waste**  
**Analysis Batch: 460019**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 459888**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		3.1	0.61	mg/Kg		02/20/19 14:20	02/21/19 18:02	1
PCB-1221	ND		3.1	0.61	mg/Kg		02/20/19 14:20	02/21/19 18:02	1
PCB-1232	ND		3.1	0.61	mg/Kg		02/20/19 14:20	02/21/19 18:02	1
PCB-1242	ND		3.1	0.61	mg/Kg		02/20/19 14:20	02/21/19 18:02	1
PCB-1248	ND		3.1	0.61	mg/Kg		02/20/19 14:20	02/21/19 18:02	1
PCB-1254	ND		3.1	0.15	mg/Kg		02/20/19 14:20	02/21/19 18:02	1
PCB-1260	ND		3.1	0.15	mg/Kg		02/20/19 14:20	02/21/19 18:02	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	84		60 - 154	02/20/19 14:20	02/21/19 18:02	1
DCB Decachlorobiphenyl	101		65 - 174	02/20/19 14:20	02/21/19 18:02	1

**Lab Sample ID: LCS 480-459888/2-A**  
**Matrix: Waste**  
**Analysis Batch: 460019**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 459888**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	41.7	44.1		mg/Kg		106	51 - 185
PCB-1260	41.7	45.5		mg/Kg		109	61 - 184

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	90		60 - 154
DCB Decachlorobiphenyl	110		65 - 174

**Lab Sample ID: LCSD 480-459888/3-A**  
**Matrix: Waste**  
**Analysis Batch: 460019**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 459888**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
PCB-1016	35.7	33.2		mg/Kg		93	51 - 185	28	50
PCB-1260	35.7	36.0		mg/Kg		101	61 - 184	23	50

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	83		60 - 154
DCB Decachlorobiphenyl	102		65 - 174



# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark-791 Washington St.(Trico site)

TestAmerica Job ID: 480-149100-1

## GC Semi VOA

### Prep Batch: 459888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-149100-1	HYDRAULIC LIFT OIL	Total/NA	Waste	3580A	
MB 480-459888/1-A	Method Blank	Total/NA	Waste	3580A	
LCS 480-459888/2-A	Lab Control Sample	Total/NA	Waste	3580A	
LCSD 480-459888/3-A	Lab Control Sample Dup	Total/NA	Waste	3580A	

### Analysis Batch: 460019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-149100-1	HYDRAULIC LIFT OIL	Total/NA	Waste	8082A	459888
MB 480-459888/1-A	Method Blank	Total/NA	Waste	8082A	459888
LCS 480-459888/2-A	Lab Control Sample	Total/NA	Waste	8082A	459888
LCSD 480-459888/3-A	Lab Control Sample Dup	Total/NA	Waste	8082A	459888

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark-791 Washington St.(Trico site)

TestAmerica Job ID: 480-149100-1

**Client Sample ID: HYDRAULIC LIFT OIL**

**Lab Sample ID: 480-149100-1**

**Date Collected: 02/14/19 11:00**

**Matrix: Waste**

**Date Received: 02/15/19 14:14**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3580A			459888	02/20/19 14:20	SGD	TAL BUF
Total/NA	Analysis	8082A		1	460019	02/21/19 18:50	W1T	TAL BUF

#### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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# Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark-791 Washington St.(Trico site)

TestAmerica Job ID: 480-149100-1

## Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
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# Method Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark-791 Washington St.(Trico site)

TestAmerica Job ID: 480-149100-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
3580A	Waste Dilution	SW846	TAL BUF

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Sample Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark-791 Washington St.(Trico site)

TestAmerica Job ID: 480-149100-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-149100-1	HYDRAULIC LIFT OIL	Waste	02/14/19 11:00	02/15/19 14:14

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## Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-149100-1

**Login Number: 149100**

**List Number: 1**

**Creator: Harper, Marcus D**

**List Source: TestAmerica Buffalo**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BENCHMARK
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	